ENCLOSURE

FIELD OVERSIGHT SUMMARY No. 1
REMEDIAL ACTIVITIES OVERSIGHT
DUPAGE COUNTY LANDFILL
DUPAGE COUNTY, ILLINOIS

(One Sheet)

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Tetra Tech Oversight Personnel: **MarySue Zekich**
Reporting Period **June 11, 1998**

INTRODUCTION

The DuPage County Forest Preserve District (FPD) is conducting remedial activities at the DuPage County Landfill (the site) in DuPage County, Illinois, pursuant to a consent order signed by the FPD and the U.S. Environmental Protection Agency (EPA) on September 25, 1989. After the site's final listing on the National Priorities List, a remedial investigation/feasibility study was performed. On March 7, 1996, an administrative order by consent was signed by the FPD and EPA to address installation of extraction wells, a predesign investigation, design of a leachate collection system (LCS), and cap repair. Leachate extraction wells were installed at the site in June 1996, and the predesign investigation began in October 1996. In February 1997, Montgomery Watson, consultant to the FPD, submitted a work plan for final remedial design activities at the site. EPA subsequently approved the work plan. The activities discussed in the work plan include recapping of certain landfill areas and installation of an LCS. In November, 1997, installation of the LCS was completed. In June, 1997, EPA requested the FPD to conduct a subsurface investigation at the North Storm Water Pipe's discharge point.

At EPA's request, on June 11, 1998, Tetra Tech EM Inc. (Tetra Tech) conducted oversight of sampling activities for the subsurface investigation at the North Storm Water Pipe performed by Montgomery Watson. This report summarizes Tetra Tech's oversight observations, issues and developments, and future activities. Appendix A contains photographs of the sampling activities, and Appendix B contains a copy of Tetra Tech's field notes.

OVERSIGHT OBSERVATIONS

MarySue Zekich of Tetra Tech arrived at the site at 8:00 a.m. The temperature was around 75°F and it was overcast and raining. The drillers were setting up to drill the borehole for headspace measurements at soil boring (SB)-1 location. A total of six boreholes were located between manholes (MH) 1 and 2, three along the east and west sides, respectively, of the North Storm Water Pipe. Two boreholes were drilled at each SB location. Each borehole was drilled using a 4.25- inch-diameter hollow stem auger. At each SB location, a borehole was first drilled to 12 feet below ground surface (bgs) for headspace measurements. Every 2 feet, a split spoon sample was collected for headspace measurement. The sample was collected in a glass jar covered with foil and then the capped. An organic vapor meter and data logger Model 580B photoionization detector (PID) was then inserted into the glass jar, and the PID reading was recorded. PID readings were only recorded for SB-1, SB-2, and SB-3. The PID would not work for samples from SB-4, SB-5, and SB-6; therefore, split spoon samples were collected in jars so that PID readings could be taken the following day in Montgomery Watson's office. The borehole soil description was logged. PID readings are summarized below.

PID READINGS

Depth	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6
1-3 feet bgs	ND	ND	ND	--	--	--
3-5 feet bgs	ND	ND	1.1 ppm	--	--	--
5-7 feet bgs	ND	ND	ND	--	--	--
7-9 feet bgs	1.1 ppm	1.1 ppm	1.1 ppm	--	--	--
9-11 feet bgs	ND	1.1 ppm	1.1 ppm	--	--	--
11-13 feet bgs	1.1 ppm	1.1 ppm	1.1 ppm	--	--	--

Notes:
bgs: Below ground surface
ND: Nondetect
ppm: Part per million
--: No value obtained

The auger was then moved approximately 1 foot from the headspace borehole and two soil samples were collected. One sample was collected from 8 to 10 feet bgs to cover the depth of the pipe (9 feet bgs), and the other sample was collected from 11 to 13 feet bgs (3 feet below the pipe). Samples from both depths will be analyzed for Target Compound List volatile and semivolatile organic compounds and Target Analyte List metals and cyanide. Duplicate samples were collected from SB-2 and SB-4. When collecting samples from SB-5 at 10 to 15 feet bgs for analysis, sample volume was insufficient; therefore, Montgomery Watson used part of the headspace measurement sample to make up the sample volume for this interval. All boreholes were backfilled using soil removed from the borehole, and the boreholes were grouted to the ground surface.

ISSUES AND DEVELOPMENTS

The PID would not work at SB-4, SB-5, and SB-6. The PID was probably affected by the weather (it was raining). Montgomery Watson collected samples from SB-4, SB-5, and SB-6 to take back to the office to obtain PID readings the next day.

When collecting samples from SB-5 at 10 to 15 feet bgs for analysis, sample volume was insufficient; therefore, Montgomery Watson used part of the headspace measurement sample to make up the sample volume for this interval.

FUTURE ACTIVITIES

As directed by EPA, Tetra Tech will continue oversight activities at the site and provide EPA with field oversight summary reports.

APPENDIX A

PHOTOGRAPHIC LOG

(One Page)

Photograph No. 1 Location: North Storm Water Pipe
Orientation: North Date: 06/11/98
Description: Soil Boring (SB) 3 located directly northwest of manhole 3

Pnotograph No. 2 Location: North Storm Water Pipe
Orientation: East Date: 06/11/98
Description: Montgomery Watson taking headspace measurements at SB3

APPENDIX B

FIELD NOTES

(Three Sheets)

PRC Environmental Management, Inc

Logbook No. _____

(For Single Project Use Only)

Project No.: _____

Project Location: _____

Site ID/GPS: _____

Issuance No.	Date	Name	Last Page Used

Field Logbook No. 1 Date 6/11/98

Thursday June 11th 1998
overcast temp 70°

0830 Tetra Tech arrives on site (MarySue Zekich) Finishing up health and safety Plan and getting ready to start drilling.
on site
Judy Kinch - Montgomery Watson
Walter Buetner - Montgomery Watson
Jim Sheffler - Forest preserve
2 drillers - TSC

0850 Split spoon 0'-2' (at SB1)
STIFF clay brown some Fine to m gravel

0856 2'-4' bgs split spoon Filled 1⅜'
same as 0-2'

0906 4'-6' bgs Spoon Filled 1½'

5'-6' bgs is tan brown STIFF silty clay (Native)

MSZ 6/11/98

Field Logbook No. _____ Date 6/11/98

0910 6'-8' bgs 7'-6' bgs is silty brown tan clay moist. 8-9' bgs is gray clay moist at transition then slightly stiff silty w/ some Fine sand.

0917 8'-10' bgs brown clay with some gray blending. silty w/some Fine sand STiFF

0925 10'-12 bgs STiFF brown clay m-F sand w/ occasional gravel brown in color a little gray mottling

0930 backfilling borehole using bentonite chips mixing it in with the soil (clay) to get rid of the clay.

MSK 6/11/98

Field Logbook No. _____ Date 6/11/98

0935 Taking Headspace readings

0'-2' - N.O.
2'-4' - N.O.
4'-6' - N.O.
6'-8' - peak 1.8 ~~1.5~~ MSK
8'-10' - N.O.
10'-12' - 1.1

Model SE0B OVM

2 samples will be taken one @ 9' bgs depth of pipe. one @ 12' bgs 3' below depth of pipe.

0945 Sample from 8'-10' bgs
0950 Sample From 11'-13' bgs

a borehole was drilled approx 1' From the borehole where the headspace measurements were taken. Sapled for TCL - VOCs, TCL - SVOCs

MSK 6/11/98

Field Logbook No. ______ Date 6/11/98

1035 started drilling @ SB 2
1'-3' bgs clay fill
5-7-8-8 blow counts @ 1'-3' bgs

1040 3'-5'
6-7-10-9 blow counts
3'-3½' bgs is fill
3½'-5' sand w/some silt
tan brown

1055 5'-7' bgs
at approx 6' bgs a cobble
5'-6 b... clay with sand
& silt 6'-7' bgs gray clay
with sand and some gravel

1100 7'-9' bgs 6-5-5-5 blow count
clay w/ some sand
occasional gravel

MSZ
6/11/98

Field Logbook No. ______ Date 6/11/98

1130 Taking headspace
using PID

1-3	ND
3-5	ND
5-7	ND
7-9	1.1 ppm
9-11	1.1 ppm
11-13	1.1 ppm

1145 Drilling 2nd hole approx 1' N
of headspace hole. will take
2 samples

1155 8'-~~10~~ 11' bgs taking sample & Dupe
1205 11'-13' bgs taking sample

1215 breaking for lunch and
steam cleaning augers

1315 Setting up at location SB-3

MSZ
6/11/98

Field Logbook No. _____ Date 6/1/98

1 [illegible] 1'-3'

13' [illegible] 7'-5'

* 1400 Photo Facing N SB3 its SW of pipe

14: [illegible] 7'

1420 Photo taking headspace Facing E

1(-3	ND
3-5	1.1
5-7	ND
7-9	1.1
9-11	1.1
11-13	1.1

MS
6/1/98

Field Logbook No. _____ Date _____

1453 [illegible] at 8'-10' bgs and 11'-13' bgs raining heavily for the past 2 hours started raining at 10 with not as heavy

1538 Photo Facing N Location SB4 they are at 9'-11' its on the W side of the

1620 Taking Sample SB4 8'-10' bgs

1625 Taking SB4 10'-13' bgs with a clupa.

The PID is not working probably due to the Rain it just gives characters

MS
6/1/98

Field Logbook No. Date

1640 Setting up at SB-5
W-side of pipe.

Since The PID Is not
Working they will Take
The headspace Sample back to the
office and Try to Fix
The PID & Test them
there For SB-4, 5 & 6
The Sample is in a Jar
With Foil over it then
a Lid ontop of The Foil.

1801 of sample SB-5
8'-10' bgs then
10'-15' bgs Not enough
[illegible] ple in The 10'-15'
For sure; Met [illegible]sted
of redoing be
[illegible] From the [illegible]

MST
6/11/98

Field Logbook No. Date

1826 Starting SB-6

1855 @ 9'-11' bgs
approx at 10' bgs a layer
Large Gravel

1915 Taking Sample @ 8'-10' bgs

1925 Taking sample @ 12'-14' bgs

1940 Grouting borehole

1955 Tetra Tech leaves The
site

MST
6/11/98